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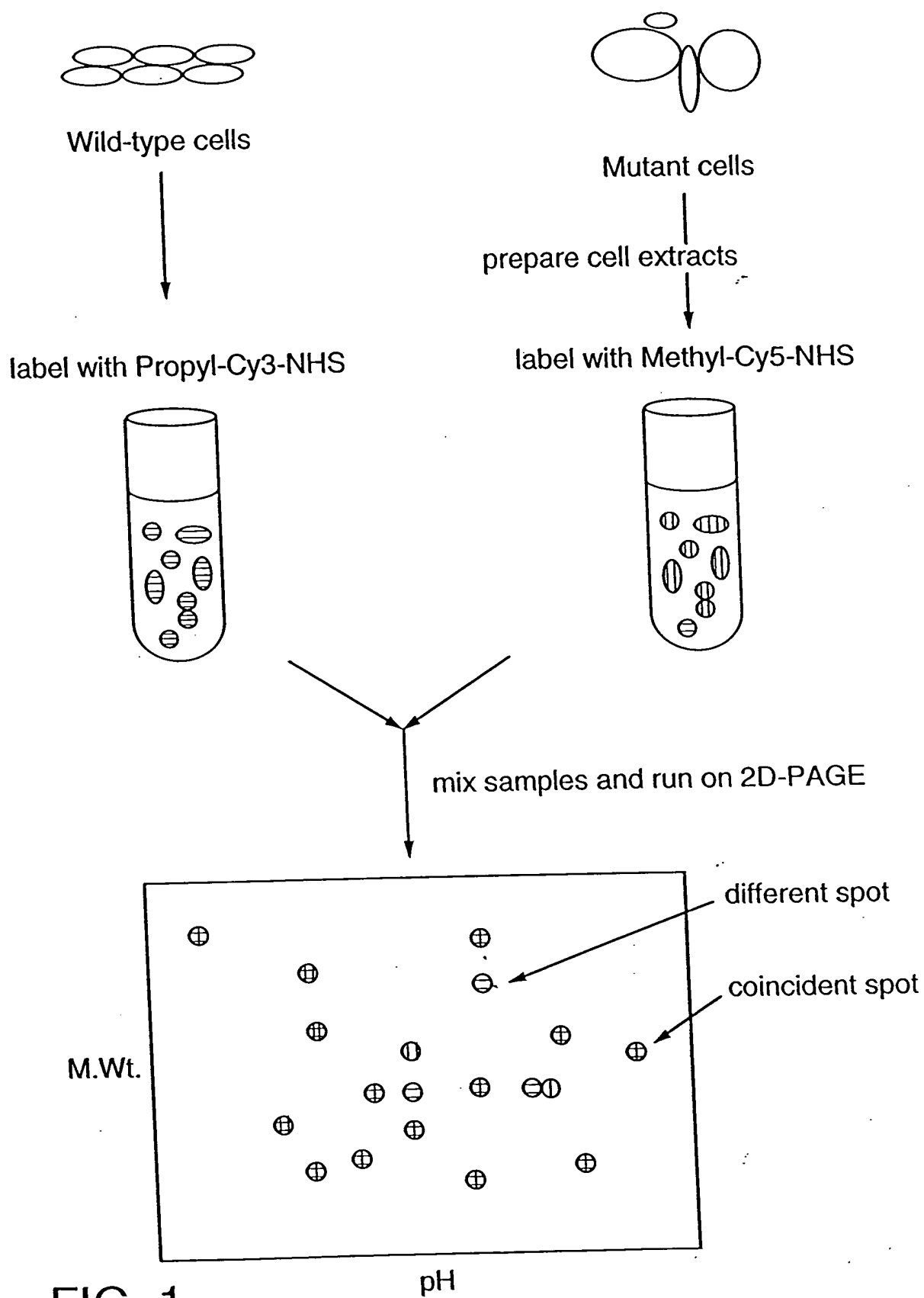


FIG. 1

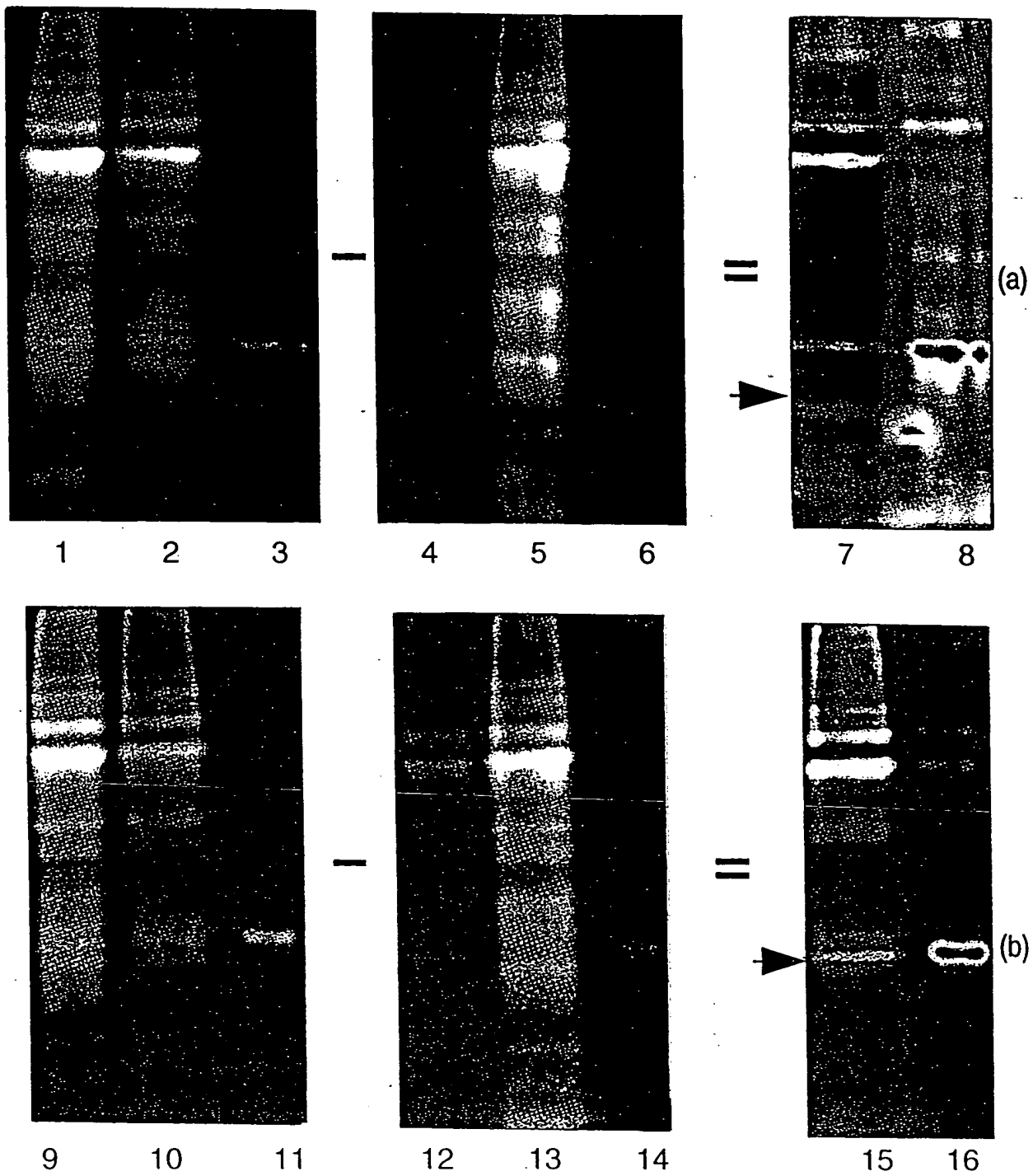


FIG. 2

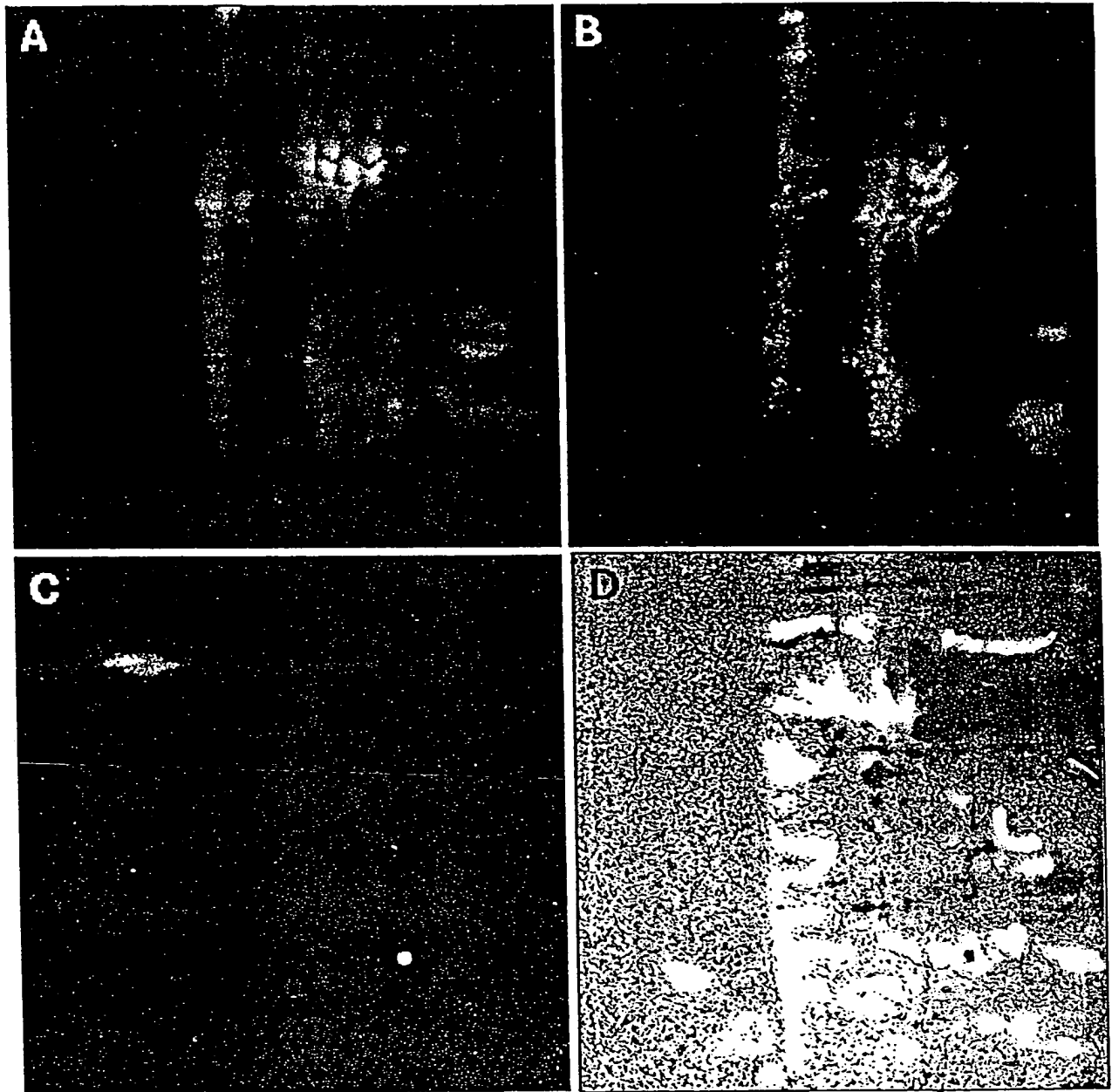


FIG. 3

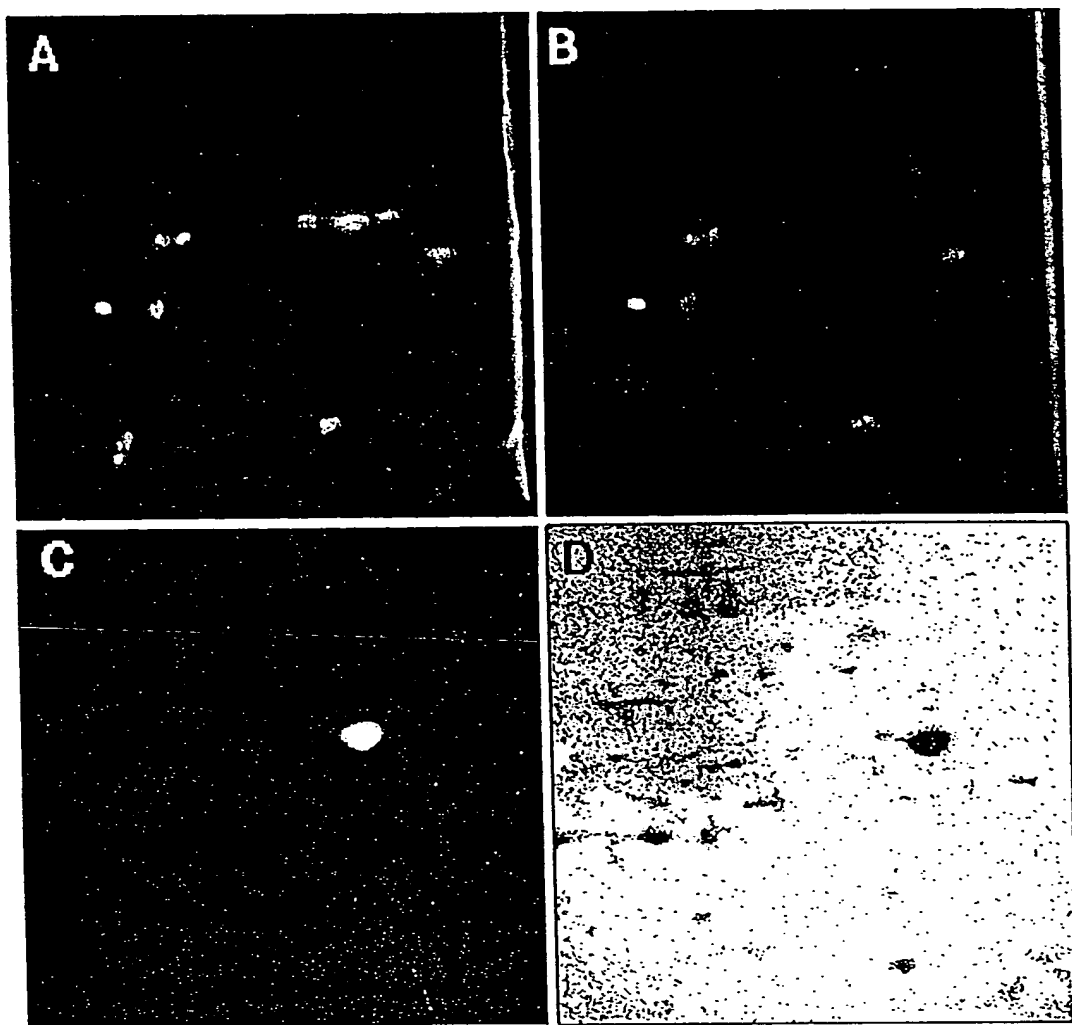


FIG. 4

**Figure 5**

**Labeling of model glycoproteins – analysis by SDS-PAGE**

**Cy 2 lysine labeling of protein**

1 2 3 4



**(a)**

**Cy 3 hydrazide labeling**

1 2 3 4



← **Transferrin** →  
(~76 kDa)

← **Trypsin inhibitor** →  
(~ 20 kDa)

**(b)**

**Figure 6**

**Differential SDS-PAGE analysis of simple protein mixes.**

**Cy3 hydrazide labeling**



**(a)**

**Cy5 hydrazide labeling**



**(b)**

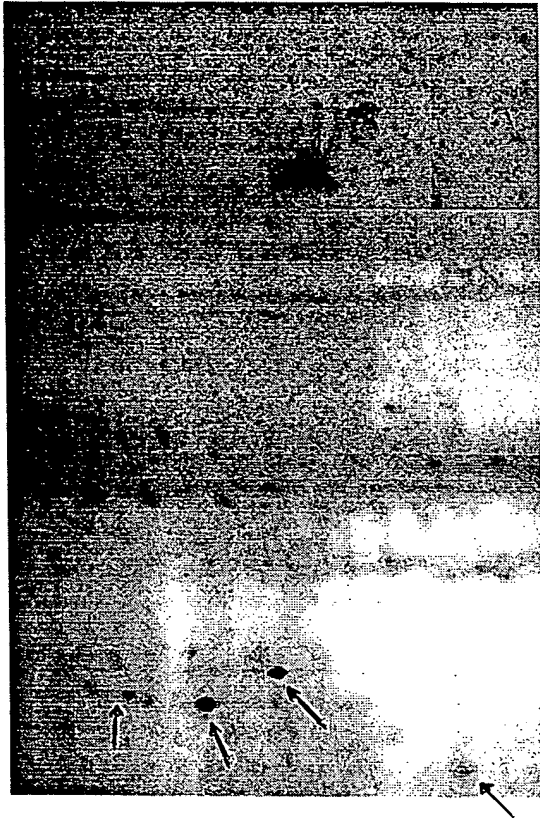
← **Transferrin** →  
(~76kDa)

← **Carbonic anhydrase** →  
(~30 kDa)

**Figure 7**

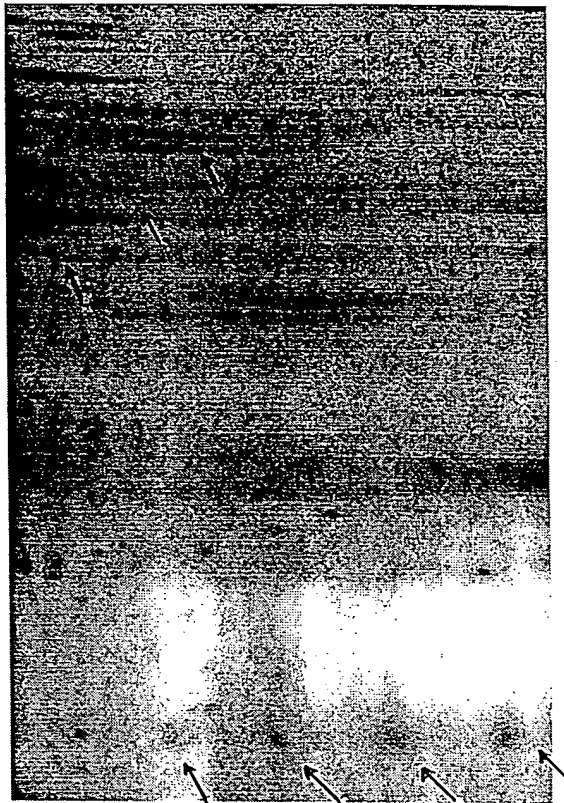
**Differential 2DE analysis of mammalian cell extracts**

**Cy3 hydrazide labeling of HBL100 cell extract**



**(a)**

**Cy5 hydrazide labeling of BT474 cell extract**



**(b)**

**Arrows indicate some of the qualitative and quantitative differences between the two cell extracts.**



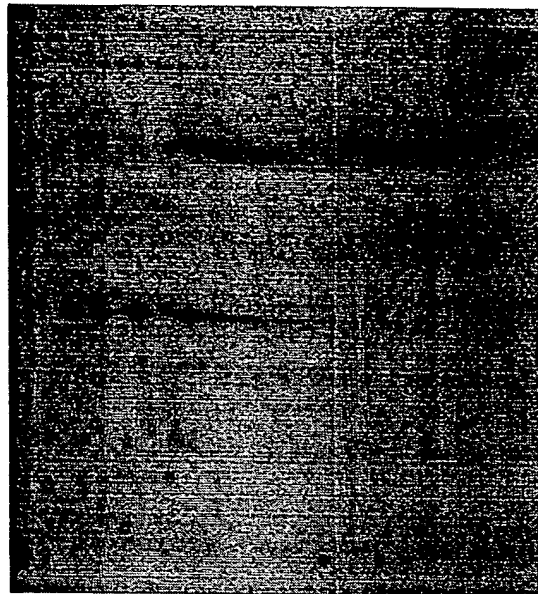
**Figure 8**

**Differential 2DE analysis of mammalian cell extract with exogenously added protein**

Cy3 hydrazide labeling of BT474 cell extract

kDa

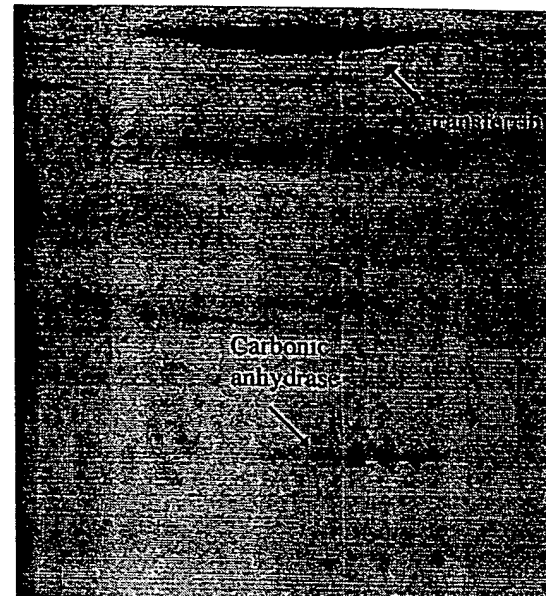
Cy5 hydrazide labeling of BT474 cell extract  
with exogenously added Cy5-labeled proteins



~76

~29

pH



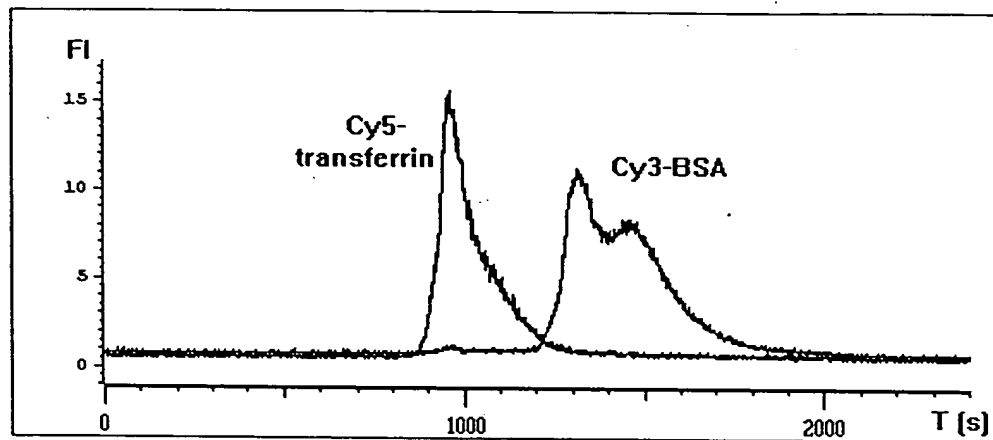
~5

~8

pH

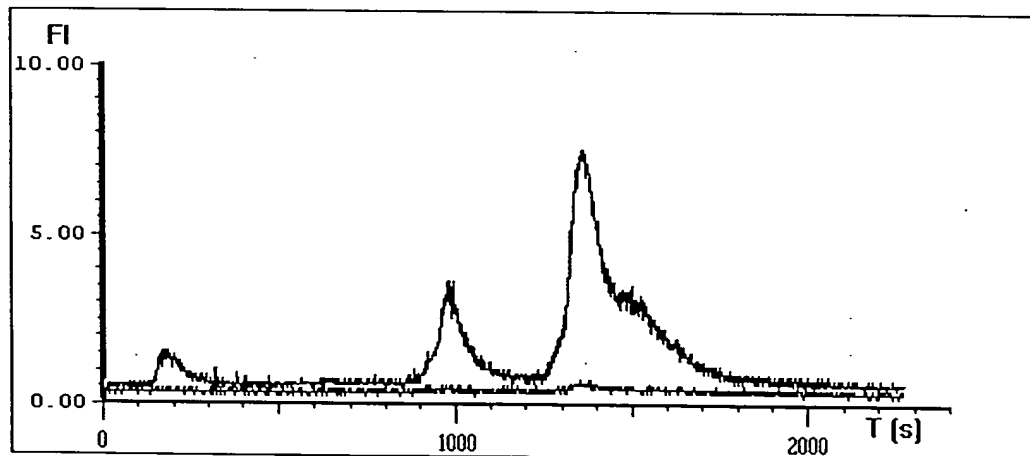
**Figure 9**

**Ion exchange chromatography of Cy3 and Cy5 labeled proteins**



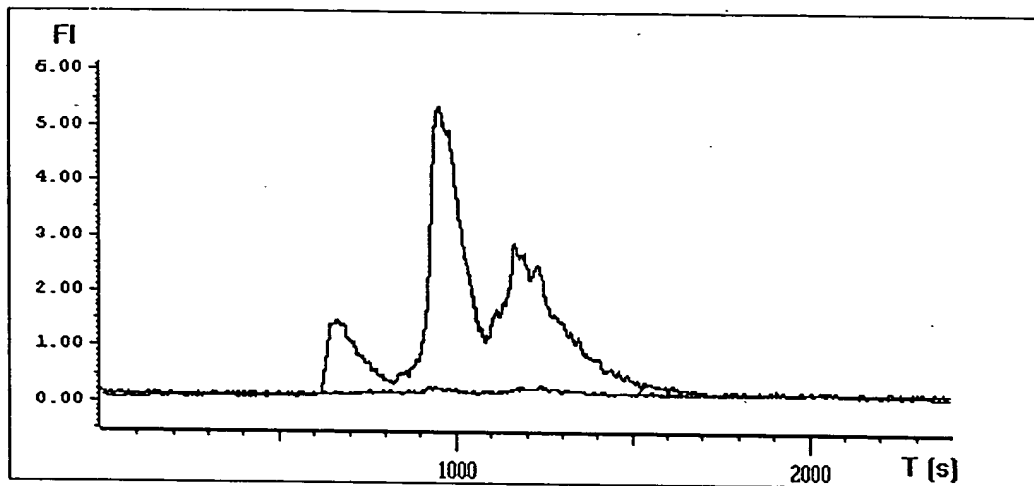
**Figure 10**

**Ion exchange chromatography of a mixture of Cy5 labeled proteins**



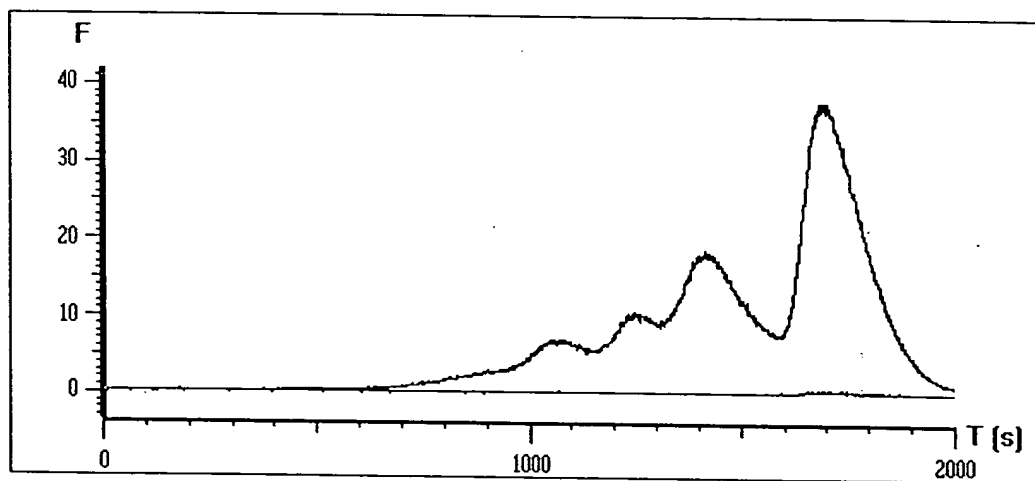
**Figure 11**

**Reverse phase chromatography of a mixture of Cy5 labeled proteins**



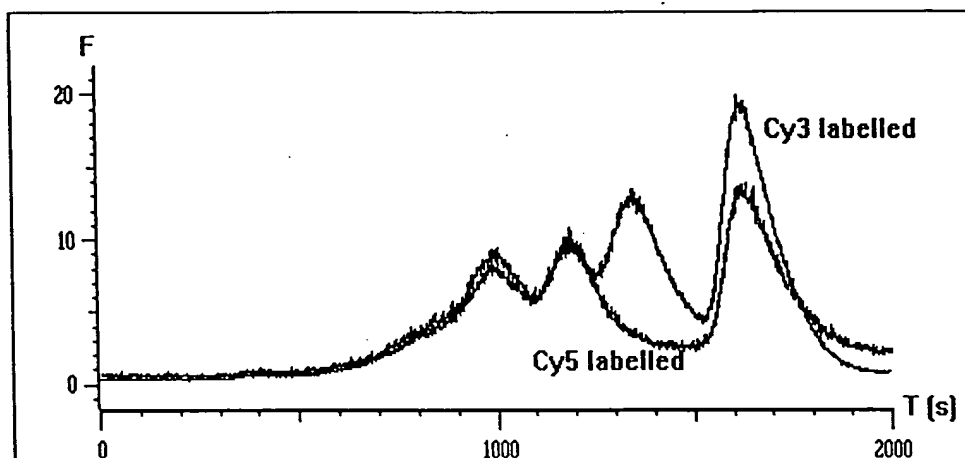
**Figure 12**

**Size exclusion chromatography of a mixture of Cy3 labeled proteins**



**Figure 13**

**Differential analysis of mixtures of Cy3 and Cy5 labeled proteins by size exclusion chromatography**



**Figure 14**

**Differential analysis of mixtures of Cy3 and Cy5 labeled proteins by ion exchange chromatography**

